REASONS FOR ALLOWANCE

1.   Claims 1, 2, 5-10, 14-19, 22-27, 31-36, 39-44, 48-53, and 56-59 are allowed.

2.   The following is a statement of reasons for the indication of allowable subject matter:

The prior art, Bierman, "Using XML as an Object Interchange Format", teaches how to map

attributes and attribute values in an object to tagged attribute elements and tagged attribute

values in the XML document representing the object. The reference further provides tag

relationships to initialize attribute relationships. The reference to Bierman illustrates how

ODMG-objects can be encoded in a new XML based language. However, the reference to

Bierman does not disclose or suggest providing access to the database of objects such that

application programs implemented in the first and second programming languages are capable of

sharing objects, in their respective programming languages, represented as structured documents

in the database. The secondary reference, US Pat. Pub. 2003/0229529 to Mui, discloses the use

of a common business objects module that is shared across applications. Metadata, rather than

source code, is used to stored the definition of each type of object in the system, its attributes and

basic properties of the attributes, as well as references to the methods for invoking, inserting,

updating, deleting, and fetching an object. Use of metadata allows the system to be configured

and otherwise modified by different clients. Mui discloses a system that provides a common

database of objects that is accessed via metadata references to the methods for manipulating the

objects, rather than providing access to the database of objects such that application programs

implemented in the first and second programming languages are capable of sharing objects, in

their respective programming languages, represented as structured documents in the database as

required by the independent claims.

In reference to the independent claims, the claimed features of receiving objects in two different programming languages, generating structured documents representing the instance of the first and second objects respectively, adding content from the first and second structured documents into the database, providing access to the database of objects such that application programs implemented in the first and second programming languages are capable of sharing objects in their respective programming languages, represented as structured documents in the database, is not shown in the prior art of record and would not have been obvious to one of ordinary skill in the art to have combined the prior art of record to come up with applicant's claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW J. LUDWIG whose telephone number is (571)272-4127. The examiner can normally be reached on 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hong can be reached on 571-272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen S. Hong/
Supervisory Patent Examiner, Art Unit
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